

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/578,392  
Source: IFWP  
Date Processed by STIC: 5/22/06

# ***ENTERED***



IFWP

## RAW SEQUENCE LISTING

DATE: 05/22/2006

PATENT APPLICATION: US/10/578,392

TIME: 14:35:06

Input Set : E:\SEQ4095P.APP

Output Set: N:\CRF4\05222006\J578392.raw

3 &lt;110&gt; APPLICANT: SEQUENOM, INC.

5 &lt;120&gt; TITLE OF INVENTION: METHODS FOR IDENTIFYING RISK OF LOW BMD AND TREATMENTS

6 THEREOF

8 &lt;130&gt; FILE REFERENCE: SEQ-4095-PC

C--&gt; 10 &lt;140&gt; CURRENT APPLICATION NUMBER: US/10/578,392

C--&gt; 11 &lt;141&gt; CURRENT FILING DATE: 2006-05-03

13 &lt;150&gt; PRIOR APPLICATION NUMBER: 60/640,966

14 &lt;151&gt; PRIOR FILING DATE: 2004-12-31

16 &lt;150&gt; PRIOR APPLICATION NUMBER: 60/640,796

17 &lt;151&gt; PRIOR FILING DATE: 2004-12-31

19 &lt;150&gt; PRIOR APPLICATION NUMBER: 60/640,967

20 &lt;151&gt; PRIOR FILING DATE: 2004-12-31

22 &lt;160&gt; NUMBER OF SEQ ID NOS: 2055

24 &lt;170&gt; SOFTWARE: PatentIn version 3.3

26 &lt;210&gt; SEQ ID NO: 1

27 &lt;211&gt; LENGTH: 98250

28 &lt;212&gt; TYPE: DNA

29 &lt;213&gt; ORGANISM: Homo sapiens

31 &lt;400&gt; SEQUENCE: 1

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36 agccatctgt gtgaagactc aatatcaagt taggccttta aaagggggaa aataattcaa 180

38 aaccactggc agctgtgggt ttccrgcctt ttctattggt tgaactctgt aataaatgca 240

40 ggaccctaca tatacaaaaag gtactgtttt ccaaattcac gtatgtatta gcatttacct 300

42 ttaaagttct catccgtcag aaaaacgggt aacacagcat tcagtatat ttttttggtt 360

44 tagttacaca gtgtcaaaaa gttctgatgt atatggataa gtagatgcac tttttgctgt 420

46 tttgtttgtt taaacagctt gctttaatta tctcaagcta cttggcagga acacctttat 480

48 tccaggtttc gcataatcag ttattctggc aagagtagat taacacgtta gtgatctcca 540

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52 agtttcaaag agatttttaa aatgagattt gtataaaaaga gtgtgcagtc cctatgggtg 660

54 taaaatcact gatattggagg agaagagggg ttggaattgt gacactgtgg cagcagatga 720

56 ccttggacaa gtcagttttt cagactttcc tcccttaaaa tagggatact aaatctcaca 780

58 ggggtggtgt gtataatgtc acccacacgc catctcctct ataactgcat ttgtatgcca 840

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78 cattctgtat ttatttgcgt gtttagagacc agttaaagtt aagacacttt ctaaatagaa 1440

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92	gagtccttca	aaaatgccag	aaatcaacgc	caaggtgtgt	ctgcctcttc	atgatggtaa	1860
94	caatttgat	cattcagact	ttcaggggag	taataaaaga	agttggataa	aacgtttatt	1920
96	gagagactgt	atggtgttat	taccaagtaa	tattttgttt	ctttcctagg	aattagaaac	1980
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378	catgaaagtt	tttgttggyg	tttttgtttt	tgagatgggg	tcttgctttg	ttccttgggc	10440
380	cagagtacat	tggtactca	caagtgggct	ggtagctggc	tacagcccca	gactcctggc	10500
382	ttaagccacc	tcctgcctca	gccaccctgg	cagctgggac	tacaggcatg	cgccatcaca	10560
384	cttagcttga	aagttttaat	ttactaagaa	tatacctgtg	tttcccccca	tttcttgatt	10620
386	taaacagtac	tggcttatat	aggaacccat	caaagttaaa	ttccccaaat	ttaaatttag	10680
388	taaatttagt	ggtttcacct	tggcaaactc	gcaatagttt	caccagctca	aatttcatgc	10740
390	ttttgtaaagc	tgagcttatg	tttgtgattt	taatccttta	agtactactg	tggtaaactaa	10800
392	tcattttttt	gttttttttg	gtgggtgttt	tgtttttggt	ttgagatgga	gtctcactct	10860
394	gttgcccagg	ctggagtgcc	gtggcgcgat	ctcggctcac	tgcaacctct	acctcctgag	10920
396	ttcaagcgat	tctcctgcct	cagcctcccg	aatagctggg	attacagggtg	cccaccacaa	10980
398	tgtctggcta	attttttgta	tttttagtag	agacgaggtt	tcacctatgt	tggccaggct	11040
400	ggtctcaaac	ccctgacctc	aggtgatctg	cccgcctcgg	cctcccaaag	tgctgggatt	11100
402	acagatgtga	gccaccgcac	ccagccaggg	actaatcttt	aaagcaaagt	tttatatatt	11160
404	tttacgtgag	taatgttatg	tgtaggtgtt	ctatttggca	aaataaatca	gccttttcta	11220
406	tcattgttgt	ggtcatttaa	attaatcctc	atcggaaaca	ttgtttacct	aagataaaca	11280
408	ttcactaaac	aactcatagc	aagacgctgg	gtaggtacaa	agatgtctta	tgtgtggtta	11340
410	tgctttcaaa	gccaactgaa	acccttttgt	aaggagttaa	atagcaaaaa	gtttcaaata	11400
412	actgtgtgcc	tctagaacag	aactatcaga	aggcaatgaa	tattcacaaa	ttgtgaagag	11460
414	atagtttgct	tcaaggaaga	aatgacttgt	aactagagta	ggtatgaaat	gatgggggaa	11520
416	aaatgatgag	gtatgaaatg	actcaccttc	tctccagctc	aaggtaagaa	gggtggcagc	11580
418	aggagtaaaa	gctcagccac	aggacgtgct	cttcctgcc	aacagctgga	ttctgcacat	11640
420	gcttgggaat	gaggtcctgc	tggttttagga	aaacaaacat	taagaattcc	caaagtcttg	11700
422	ggtggaaaag	cctgttgctt	ttcagaggca	aggccatcac	catttggcaa	ggggcccaag	11760
424	gccccaggca	gctgtggtac	catctgtttc	tgaaggagtg	gggattttac	cccctgaaat	11820
426	gtcagtttgt	ggcttaaaact	ctgggttcta	caggcccaaa	ataaatagtg	ccagggaagg	11880
428	gcccctgaac	agagctaacc	agggttcaga	ttggcacccc	atccccactg	gggcaagcag	11940
430	gactcttagc	aattaaggcc	taagacggct	gacaggtggg	acatggcaga	aattcagtgc	12000
432	ttccaccaca	gctactcaat	gtgccacrat	catgggccac	acaccactct	gaatacttag	12060
434	aaaattattg	gtttgggcct	ttattattaa	gtagcaagta	aataactgaa	aaagccccag	12120
436	atttcagctc	tggctatagc	agctttctaa	gtctgtgttt	ttaagggtgca	atttcttgaa	12180
438	tcctagtctc	gtagaagaaa	cactctacc	ccccgcccc	cccaccccc	ccccccacc	12240
440	ctaaaaaatg	agcttcatga	tcaagtacat	tttggaaacc	tcaggctgat	ccaagttcat	12300
442	agattttctt	actgcaggcc	ttctgggtcc	tttaatatgc	ctgaagctgg	ggctttccct	12360
444	tcctgagaat	ggcccaggac	tatccatgtg	cctcattttg	ggaaatttag	taatgagtta	12420
446	ctaaatcaac	accacctttg	gcattctaca	tagcaaacat	actttgttag	atgtgacatt	12480
448	ttacacacta	accaatggag	ataaaaattt	ttaaatttat	ttttggccag	gcacggtggc	12540
450	tcatgcctgt	aataccagca	ctttgggagg	ccgaggcagg	cggatcactt	gaggtcaaga	12600
452	gtttgagacc	agcctggcca	acgtggcgaa	atcctttctc	tactaaaaat	acaaaaatta	12660
454	gctgggcgtc	gtcgtgggca	cctgtaatcc	cagctactcg	ggaggctgag	ggaggagaat	12720
456	tgcttgaacc	cgggaggggg	aggttgacgt	gagccaagac	cacaccactg	cactccagcc	12780
458	tgggcgtcag	agtgagattc	tgtctcaaaa	aataataaaa	tgattttcta	tttatttttt	12840
460	tttaccagtg	ctctacatgt	tcagagaaac	ttctctggta	accaaccaca	gaaatgatcc	12900
462	ctgaaagtat	agtcttagga	gataaatatt	ctttacatag	ccaggaggga	gatgagaagc	12960
464	catacctgtc	tacagtctga	ctgacaaagg	aggaggctcc	aggtcccctg	gagaatccca	13020
466	ggttttatgt	aataattact	tggtcctttt	caaagtactt	ggatgagtg	aggatagtct	13080
468	ctttgtctta	tcagctagtc	ctgcaatcta	ggtgttctcc	cattttgtag	aggcttgacg	13140
470	agatgagaga	cctgtccaag	gtctcaaacc	cctaactggc	agttctgaga	ctagaaatac	13200

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/578,392

DATE: 05/22/2006  
TIME: 14:35:07

Input Set : E:\SEQ4095P.APP  
Output Set: N:\CRF4\05222006\J578392.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220>

to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; N Pos. 18816,43817  
Seq#:4; N Pos. 6390,20074,31843  
Seq#:4; N Pos. 86020,86947  
Seq#:5; N Pos. 38332,45756,46338  
Seq#:5; N Pos. 61700,72789,79870,99765  
Seq#:15; Xaa Pos. 73

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/578,392

DATE: 05/22/2006

TIME: 14:35:07

Input Set : E:\SEQ4095P.APP

Output Set: N:\CRF4\05222006\J578392.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application Number

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:8427 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:18780

M:341 Repeated in SeqNo=3

L:11302 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:6360

M:341 Repeated in SeqNo=4

L:15701 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:38280

M:341 Repeated in SeqNo=5

L:18864 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:64